

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : LIU
Application No. : 10/779,648
Filed : February 18, 2004
Title : APPARATUS AND METHOD FOR CARRIER
FREQUENCY OFFSET AND PHASE COMPENSATION
IN COMMUNICATION SYSTEM
Group Art Unit : 2661
Examiner : Unknown
Attorney Docket : 3111-420

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

TRANSMITTAL COVER SHEET

Transmitted herewith for filing are the following:

1. INFORMATION DISCLOSURE STATEMENT, along with
Form PTO-1449 (in duplicate) and copies of foreign documents
and articles listed thereon.

The Commissioner is hereby authorized to charge any fees which may be
required for the filing of this document to **Deposit Account No. 501874.**

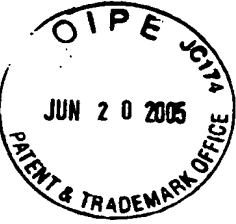
Respectfully submitted,

Date: June 20, 2005

By:


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OFFICE OF INITIAL PATENT EXAMINATION

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In compliance with the duty of disclosure under 37 CFR 1.56, and 37 CFR 1.97-1.98, the documents listed on the attached form PTO-1449 are hereby made of record in this patent application. Copies of the articles and any foreign patent documents are enclosed.

As this Information Disclosure Statement is being filed prior to the mailing of the first Official Action in this application, no fee is believed due in order to have the enclosed references considered by the Examiner and made of record in the application.

Early action on the merits of the application is earnestly solicited.

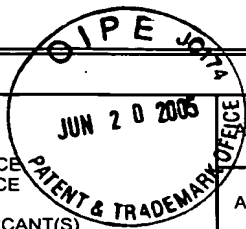
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FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)
(Use several sheets if necessary)

Date Submitted to PTO: June 20, 2005

PATENT DOCKET NO. 3111-420

APPLICATION NO. 10/779,648

APPLICANT LIU

FILING DATE February 18, 2004

GROUP 2661

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5285474	Feb. 8, 1994	Chow et al.			

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

Jack S. Chow, Jerry C. Tu, and J.M. Cioffi, "A Discrete Multitone Transceiver System for HDSL Applications", IEEE J. on Sel Areas in Comm., Vol. 9, No. 6, pp. 895-908, August 1991

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J.W. Melsa, Richard C. Younce and Charles E. Rohrs, "Impulse Response Shortening for Discrete Multitone Transceivers", IEEE Trans. on Comm., Vol. 44, No. 12, pp. 1662-1672, December 1996

N. Al-Dhahir and J.M. Cioffi, "Efficiently computed reduced-parameter input-aided MMSE equalizers for ML detection: A unified approach", IEEE Trans. on Info. Theory, Vol. 42, pp. 903-915, May 1996

N. Al-Dhahir and J.M. Cioffi, "Optimum finite-length equalization for multicarrier transceivers", IEEE Trans. on Comm., Vol. 44, pp. 56-63, Jan. 1996

Werner Henkel, and Thomas Kessler, "Maximizing the Channel Capacity of Multicarrier Transmission by Suitable Adaptation of the Time-Domain Equalizer", IEEE Trans. on Comm., Vol. 48, No. 12, December 2000

Katleen et al., "Per Tone Equalization for DMT-Based Systems", IEEE Trans. on Comm., Vol. 49, No. 1, Jan. 2001

Guner Arslan et al., "Equalization for Discrete Multitone Transceivers to Maximize Bit Rate", IEEE Trans. on Signal processing.

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)
(Use several sheets if necessary)Date Submitted to PTO: **June 20, 2005**ATTY DOCKET NO. **3111-420**APPLICATION NO. **10/779,648**APPLICANT **LIU**FILING DATE **February 18, 2004**GROUP **2661**

U.S. PATENT DOCUMENTS

*EXAMINER
INITIALDOCUMENT
NUMBER

DATE

NAME

CLASS

SUBCLASS

FILING DATE IF
APPROPRIATE

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

Zheng Du, and Jinkang Zhu, "A pilot-based frequency offset tracking scheme in OFDM systems", 2001 International Conferences on Info-Tech and Info-Net, Vol 2, pp. 566-571, Beijing, China, October 29, 2001 - November 1, 2001

Yan Zhang and Xiaohu Yu, "An improved automatic frequency correction scheme for discontinuous pilot mobile communication system," IEEE 2001 Spring Vehicular Technology Conference, Vol. 3, pp 1708-1712, Rhodes, Greece, 6-9, May 2001.

Yang-Seok, Choi, P.J. Voltz, and F.A. Cassara, "ML estimation of carrier frequency offset for multicarrier signals in Rayleigh fading channels," IEEE Transactions on Vehicular Technology, Vol. 50, pp. 644-655, March 2001.

Bor-Sen Chen, and Chang-Lan Tsai, "Frequency offset estimation in an OFDM system," 2001 IEEE Third Workshop on Signal Processing Advances in Wireless Communications (SPAWC '01) pp. 150-153, Taiwan, 20-23 March 2001.

M.J. Fernandez-Getino Garcia, O. Edfors, and J.M. Paez-Borralló, "Frequency offset correction for coherent OFDM in wireless systems", IEEE Transactions on Consumer Electronics, Vol. 47, pp. 187-193, Feb. 2001

M.R. Dacca, G. Levin, and D. Wulich, "Frequency offset tracking in OFDM based on multicarrier PLL.", 21st Century Military Communications Conference, vol. 2, pp. 912-916, 22-25 October 2000.

John A. C. Bingham, "Multi-Carrier Modulation for Data Transmission: An Ideal Whose Time Has Come" IEEE Communication Magazine, May 1990, page 5-14.

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Leland B. Jackson, "Signals, Systems, and Transforms", Addison-Wesley Publishing Company, Inc., 1991, Page 410.

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